








































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ARMY ELECTRONICS RESEARCH AND DEVELOPMENT COMMAND WS--ETC F/G 4/2
14818C LANCE MISSILE NUMBER 4545, ROUND NUMBER 359-APT, 3 OCTOB--ETC(U)
OCT 80

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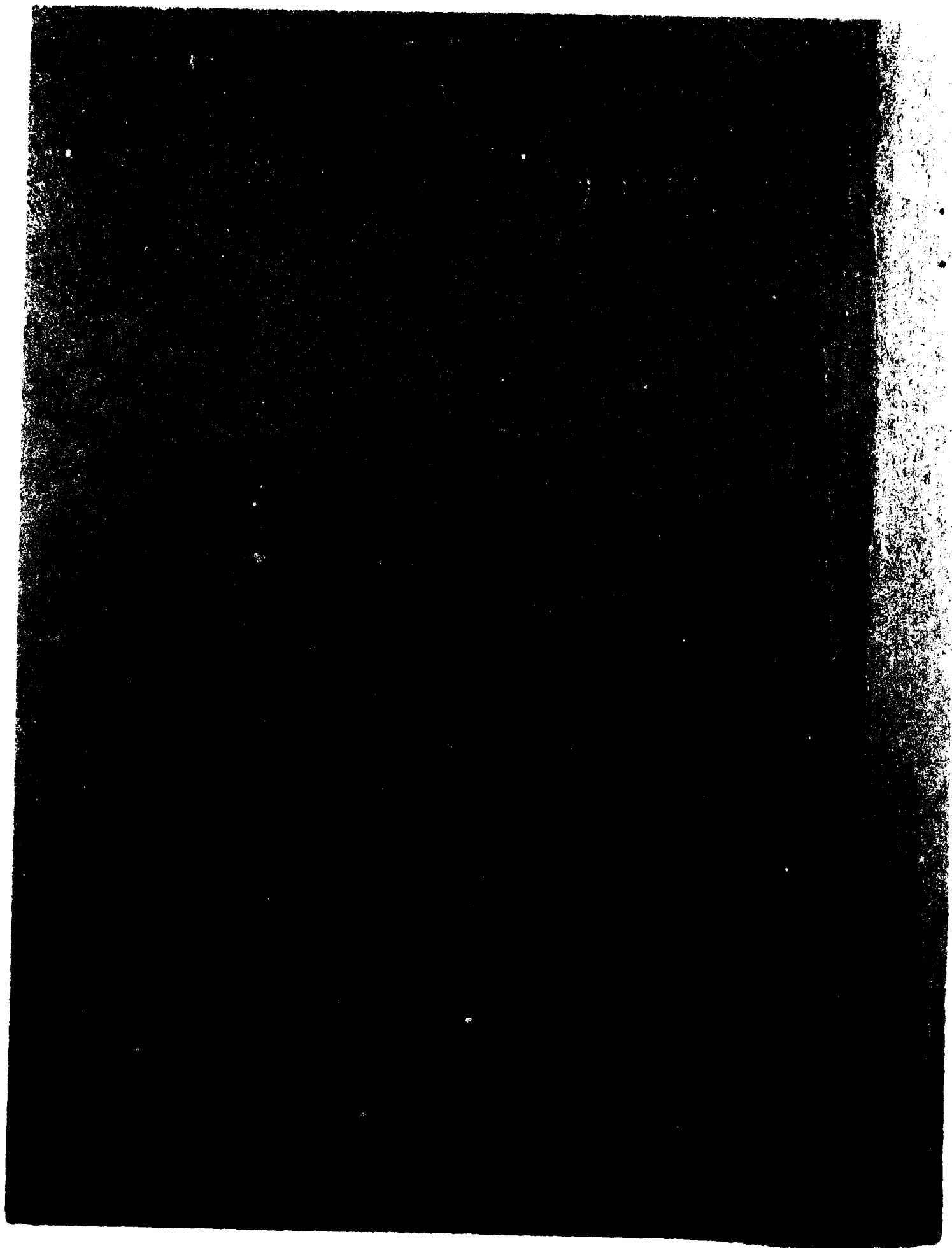
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SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER DR 1160	2. GOVT ACCESSION NO. DD-A612837	3. RECIPIENT'S CATALOG NUMBER
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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Meteorological data gathered for the launching of the 14818c LANCE, Missile Number 4545, Round Number 359-APT presented in tabular form.		

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INTRODUCTION

14818c Lance, Missile Number 4545, Round Number 359-APT,
was launched from LC 39, White Sands Missile Range (WSMR), New
Mexico, at 0800 MDT on 3 October 1980. The scheduled launch time
was 0800 MDT.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

a. Surface

(1) Standard surface observations to include pressure, temperature ($^{\circ}\text{C}$), relative humidity, dew point ($^{\circ}\text{C}$), density (gm/m^3), wind direction and speed, and cloud cover were made at the "C" Station met site at T-0 minutes.

(2) Monitor of wind speed and direction from one anemometer was provided in the launch control room.

b. Upper Air

(1) Low level wind data were obtained from RPTS T-9 pibal observation at:

SITE AND ALTITUDE

LC 39
3000 Meters

(b) Air structure data (rawinsonde) were collected at the following met sites. Data were collected from surface to as high as possible in 500-foot increments.

SITE AND TIME

WSD	0750 MDT
APA	0630 MDT
JAL	0750 MDT

TABLE 1. Surface Observations taken at 0800 MDT,
3 October 1980, at LC-39, 14818c LANCE,
Missile Number 4545, Round Number 359-APT.

ELEVATION	4021	FT/MSL
PRESSURE	886.8	MBS
TEMPERATURE	13.3	°C
RELATIVE HUMIDITY	55	%
DEW POINT	4.4	°C
DENSITY	1073	GM/M ³
WIND SPEED	03	KTS
WIND DIRECTION	110	DEGREES
CLOUD COVER	CLEAR	

PILOT BALLOON MEASURED WIND DATA

TABLE 3

RELEASED FROM LC-39 DATE 3 October 1980 TIME 0800 MDT

COORDINATES (WSTM) X= 530.938.82 Y= 186.564.96 H= 4063.75

NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH.

HEIGHTS ARE METERS AGL X OR FEET AGL .

HEIGHT AGL	DIRECTION DEGREES	SPEED KNOTS
SFC	140	02
60	170	03
120	130	06
180	145	10
240	145	11
300	160	09
360	180	10
420	190	08
480	210	06
540	235	07
600	205	06
660	195	09
720	175	09
780	180	11
840	170	14
900	185	15
960	185	10
1020	200	09
1080	220	07
1140	235	08
1200	250	07
1260	230	06
1320	265	06
1380	265	06
1440	260	07
1500	260	06
1560	245	06
1620	240	09
1680	235	09
1740	225	10

[illegible][illegible]

PILOT BALLOON MEASURED WIND DATA

TABLE 2

RELEASED FROM LC-39 DATE 3 OCTOBER 1980 TIME 0750 MDT

COORDINATES (WSTM) X= 530.938.82 Y= 186.564.96 H= 4063.75

NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH.

HEIGHTS ARE METERS AGL X OR FEET AGL.

HEIGHT AGL	DIRECTION DEGREES	SPEED KNOTS
SFC	180	02
60	130	01
120	140	04
180	145	12
240	155	12
300	155	13
360	160	12
420	175	09
480	190	06
540	220	06
600	210	06
660	195	07
720	190	08
780	185	11
840	180	13
900	180	12
960	195	10
1020	210	80
1080	230	07
1140	245	08
1200	245	07
1260	230	05
1320	250	06
1380	270	06
1440	270	06
1500	260	07
1560	255	08
1620	240	08
1680	235	09
1740	230	08

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STATION ALTITUDE 3989.00 FEET MSL
3 OCT. 80 0750 HRS MDT
ASCENSION NO. 532

SIGNIFICANT LEVEL DATA
2770205J2
WHITE SANDS
TABLE 4

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE		REL. HUM. PERCENT
	AIR DEGREES	DEWPOINT CENTIGRADE	
886.5 3989.0	10.7	7.8	82.0
874.8 4355.3	13.9	5.3	56.0
850.0 5157.1	17.0	8.2	56.0
824.2 6016.4	13.6	6.2	61.0
800.2 6833.7	12.2	9.4	83.0
775.0 7718.8	13.3	8.6	73.0
755.6 8419.7	12.0	7.5	74.0
727.2 9474.6	11.4	2.7	55.0
700.0 10517.9	9.0	.7	56.0
681.2 11258.5	8.0	.0	57.0
645.0 12732.8	5.2	-8.6	36.0
602.0 14569.0	.6	-16.7	26.0
593.6 14939.0	-5	-14.8	33.0
576.8 15691.5	-1.9	-23.0	18.0
560.4 16445.4	-1.9	-25.8	14.0
500.0 19393.0	-7.9	-30.6	14.0
452.6 21912.2	-13.5	-29.7	24.0
424.0 23533.0	-17.6	-35.6	19.0
400.0 24961.6	-20.0	-39.2	16.0
363.0 27305.5	-25.3	-43.7	16.0
324.4 29957.0	-31.8	-48.6	17.0
300.0 31760.7	-36.1		
250.0 35839.9	-46.3		
200.0 40619.2	-56.1		
159.2 45302.2	-65.0		
150.0 46495.3	-66.2		
130.8 49219.2	-68.3		
111.8 52326.5	-68.2		
100.0 54512.5	-72.5		
90.8 56376.4	-74.2		
84.2 57843.5	-69.9		
70.0 61509.3	-65.9		

STATION ALTITUDE 3989.00 FEET MSL
 3 OCT. 80 0750 HRS MDT
 ASCENSION NO. 532

SIGNIFICANT LEVEL DATA
 2770020532
 WHITE SANDS

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

TABLE 4 (CONT)

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	DEWPOINT PERCENT	REL. HUM. PERCENT
62.0	63964.5	-62.1		
52.8	67241.3	-62.5		
50.0	68358.4	-60.1		
35.2	75677.5	-55.4		
30.0	79052.1	-55.0		
23.8	84007.7	-49.5		

STATION ALTITUDE 3989.00 FEET MSL
 3 OCT. 80 0750 HRS MDT
 ASCENSION NO. 532

UPPER AIR DATA
 2770020532
 WHITE SANDS

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

TABLE 5

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
3989.0	886.5	10.7	7.8	82.0	1093.1	657.8	210.0	1.9	1.000291
4000.0	886.1	10.8	7.7	81.2	1082.3	657.9	209.5	2.0	1.000291
4500.0	870.3	14.5	5.8	56.0	1049.9	662.0	196.8	3.8	1.000276
5000.0	854.8	16.4	7.6	56.0	1023.7	664.4	192.3	5.6	1.000275
5500.0	839.6	15.6	7.4	58.0	1008.1	663.6	190.0	7.5	1.000272
6000.0	824.7	13.7	6.3	60.9	997.3	661.2	188.7	9.3	1.000266
6500.0	809.9	12.8	8.3	74.0	981.8	660.4	189.6	8.8	1.000269
7000.0	795.4	12.4	9.3	81.1	965.0	660.2	190.8	8.1	1.000269
7500.0	781.2	13.0	8.8	75.5	945.7	660.9	209.9	5.3	1.000263
8000.0	767.2	12.8	8.1	73.4	929.7	660.5	251.6	4.0	1.000257
8500.0	753.4	12.0	7.2	72.6	915.9	659.5	258.8	4.8	1.000251
9000.0	739.8	11.7	5.0	63.5	900.9	658.9	263.9	5.6	1.000242
9500.0	726.5	11.3	2.6	55.0	886.2	658.4	272.7	6.1	1.000232
10000.0	713.4	10.2	1.7	55.5	873.9	657.0	280.0	6.7	1.000227
10500.0	700.5	9.0	.7	56.0	861.7	655.6	303.1	8.1	1.000223
11000.0	687.7	8.3	.3	56.7	848.1	654.8	317.9	10.3	1.000219
11500.0	675.1	7.5	-1.3	53.6	835.3	653.7	325.2	10.8	1.000213
12000.0	662.7	6.6	-4.1	46.4	823.2	652.4	331.5	11.3	1.000205
12500.0	650.6	5.6	-7.1	39.3	811.2	651.2	336.2	10.8	1.000198
13000.0	638.6	4.5	-9.7	34.5	799.7	649.7	341.2	10.9	1.000192
13500.0	626.7	3.3	-11.9	31.8	788.6	648.2	345.1	12.5	1.000188
14000.0	615.0	2.0	-14.1	29.1	777.6	646.7	347.6	14.2	1.000184
14500.0	603.6	.8	-16.3	26.4	766.8	645.1	348.5	15.9	1.000179
15000.0	592.2	-0.6	-15.3	31.8	756.1	643.5	348.2	17.0	1.000178
15500.0	581.0	-1.5	-20.5	21.8	744.7	642.3	343.4	15.8	1.000172
16000.0	570.0	-1.9	-24.1	16.4	731.7	641.8	337.7	14.6	1.000167
16500.0	559.2	-2.0	-25.9	14.0	718.1	641.6	329.7	12.7	1.000164
17000.0	548.5	-3.0	-26.7	14.0	707.1	640.4	326.9	11.7	1.000151
17500.0	538.0	-4.0	-27.5	14.0	696.1	639.2	337.2	12.2	1.000158
18000.0	527.7	-5.1	-28.3	14.0	685.4	638.0	345.6	13.1	1.000156
18500.0	517.6	-6.1	-29.2	14.0	674.9	636.8	351.8	14.2	1.000153
19000.0	507.7	-7.1	-30.0	14.0	664.5	635.6	352.3	14.5	1.000151

STATION ALTITUDE 3989.00 FEET MSL
 3 OCT. 80 0750 HRS MDT
 ASCENSION NO. 532

UPPER AIR DATA
 2770020532
 WHITE SANDS

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

TABLE 5 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	TEMPERATURE DEWPOINT DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN) SPEED KNOTS	INDEX OF REFRACTION
19500.0	497.9	-8.1	-30.5	14.4	654.3	634.3	350.2	1.000148
20000.0	488.1	-9.2	-30.1	16.4	644.1	633.0	349.1	1.000146
20500.0	478.6	-10.4	-29.8	18.4	634.2	631.7	348.3	1.000144
21000.0	469.2	-11.5	-29.7	20.4	624.4	630.3	347.6	1.000142
21500.0	460.0	-12.6	-29.6	22.4	614.8	629.0	347.0	1.000140
22000.0	451.0	-13.7	-30.0	23.7	605.4	627.6	347.6	1.000138
22500.0	442.0	-15.0	-31.8	22.2	596.2	626.1	348.1	1.000135
23000.0	433.2	-16.3	-33.6	20.6	587.3	624.5	348.5	1.000133
23500.0	424.6	-17.5	-35.4	19.1	578.4	623.0	348.9	1.000131
24000.0	416.0	-18.4	-36.7	18.0	568.7	621.9	349.1	1.000128
24500.0	407.6	-19.2	-38.0	17.0	559.1	620.9	349.3	1.000126
25000.0	399.4	-20.1	-39.3	16.0	549.7	619.8	348.7	1.000124
25500.0	391.2	-21.2	-40.3	16.0	540.8	618.4	347.8	1.000122
26000.0	383.2	-22.3	-41.2	16.0	532.1	617.0	346.9	1.000120
26500.0	375.3	-23.5	-42.1	16.0	523.6	615.6	346.0	1.000118
27000.0	367.6	-24.6	-43.1	16.0	515.2	614.2	347.9	1.000116
27500.0	360.0	-25.8	-44.0	16.1	506.9	612.8	351.2	1.000114
28000.0	352.5	-27.0	-44.9	16.3	498.8	611.2	353.7	1.000112
28500.0	345.1	-28.2	-45.9	16.5	490.8	609.7	356.1	1.000110
29000.0	337.8	-29.5	-46.8	16.6	482.9	608.2	357.6	1.000108
29500.0	330.7	-30.7	-47.7	16.8	475.2	606.7	358.8	1.000106
30000.0	323.8	-31.9	-48.9	16.6**	467.5	605.1	.5	1.000105
30500.0	316.9	-33.1	-52.7	11.9**	459.8	603.6	359.9	1.000103
31000.0	310.1	-34.3	-57.7	7.2**	452.2	602.1	353.6	1.000101
31500.0	303.4	-35.5	-66.6	2.5**	444.7	600.6	347.5	1.000099
32000.0	296.8	-36.7			437.3	599.1	342.6	1.000097
32500.0	290.2	-37.9			429.9	597.5	341.2	1.000096
33000.0	283.8	-39.2			422.6	595.9	340.0	1.000094
33500.0	277.6	-40.4			415.5	594.3	339.0	1.000093
34000.0	271.4	-41.7			408.5	592.7	339.1	1.000091
34500.0	265.4	-42.9			401.7	591.1	339.6	1.000089
35000.0	259.6	-44.2			394.9	589.5	341.4	1.000088

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 3989.00 FEET MSL
3 OCT. 80 0750 HRS NOT
ASCENSION NO. 532

UPPER AIR DATA
277020532
WHITE SANDS
TABLE 5 (CONT)

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
35500.0	253.8	-45.5			388.3	587.9	345.0	23.7	1.000086
36000.0	248.1	-46.6			381.6	586.3	348.5	24.1	1.000085
36500.0	242.4	-47.7			374.5	585.0	349.2	27.0	1.000083
37000.0	236.8	-48.7			367.5	583.7	349.7	29.9	1.000082
37500.0	231.4	-49.7			360.7	582.3	351.2	31.3	1.000080
38000.0	226.0	-50.7			354.0	581.0	352.9	32.0	1.000079
38500.0	220.8	-51.8			347.4	579.7	354.0	32.6	1.000077
39000.0	215.7	-52.8			341.0	578.3	353.8	32.8	1.000076
39500.0	210.7	-53.8			334.7	577.0	353.6	33.1	1.000075
40000.0	205.9	-54.8			328.5	575.6	352.9	32.9	1.000073
40500.0	201.1	-55.9			322.4	574.3	352.1	32.8	1.000072
41000.0	196.3	-56.8			316.2	573.0	351.8	31.7	1.000070
41500.0	191.6	-57.8			309.9	571.7	351.7	30.0	1.000069
42000.0	187.0	-58.7			303.8	570.5	352.0	29.0	1.000068
42500.0	182.5	-59.7			297.8	569.2	353.3	30.4	1.000066
43000.0	178.1	-60.6			291.9	567.9	354.5	31.7	1.000065
43500.0	173.8	-61.6			286.2	566.7	357.7	35.0	1.000064
44000.0	169.6	-62.5			280.6	565.4	39	38.9	1.000062
44500.0	165.5	-63.5			275.0	564.1	3.9	42.3	1.000061
45000.0	161.6	-64.4			269.6	562.8	8.3	44.1	1.000060
45500.0	157.6	-65.2			264.1	561.8	12.3	46.2	1.000059
46000.0	153.8	-65.7			258.2	561.1	16.3	47.4	1.000058
46500.0	150.0	-66.2			252.4	560.4	20.5	47.8	1.000056
47000.0	146.2	-66.6			246.6	559.9	24.4	48.4	1.000055
47500.0	142.6	-67.0			241.0	559.4	23.0	47.4	1.000054
48000.0	139.1	-67.4			235.4	558.9	21.6	46.3	1.000052
48500.0	135.6	-67.7			230.0	558.3	18.3	46.9	1.000051
49000.0	132.2	-68.1			224.7	557.8	14.4	48.4	1.000050
49500.0	129.0	-68.3			219.3	557.6	11.4	49.8	1.000049
50000.0	125.7	-68.3			213.8	557.6	10.4	50.5	1.000048
50500.0	122.6	-68.3			208.5	557.6	9.3	51.2	1.000046
51000.0	119.5	-68.2			203.2	557.7	7.3	49.8	1.000045

UPPER AIR DATA
2770020532
WHITE SANDS

STATION ALTITUDE 3989.00 FEET MSL
3 OCT. 80 0750 HRS MUT
ASCENSION NO. 532

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

TABLE 5 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. % PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
51500.0	116.6	-68.2			198.2	557.7	3.6	45.9	1.000044
52000.0	113.7	-68.2			193.2	557.7	359.4	42.3	1.000043
52500.0	110.8	-68.5			188.7	557.3	352.0	40.2	1.000042
53000.0	108.0	-69.5			184.8	555.9	342.8	39.8	1.000041
53500.0	105.3	-70.5			181.0	554.6	333.6	40.4	1.000040
54000.0	102.6	-71.5			177.3	553.2	330.7	41.3	1.000039
54500.0	100.1	-72.5			173.7	551.9	328.4	42.2	1.000038
55000.0	97.5	-72.9			169.7	551.2	328.1	42.0	1.000037
55500.0	95.0	-73.4			165.7	550.6	334.4	38.5	1.000036
56000.0	92.6	-73.9			161.8	550.0	341.8	35.5	1.000035
56500.0	90.2	-73.8			157.7	550.0	350.1	33.4	1.000034
57000.0	87.9	-72.4			152.6	552.0	359.2	32.3	1.000033
57500.0	85.7	-70.9			147.6	554.0	6.0	31.7	1.000032
58000.0	83.5	-69.7			143.1	555.6	7.4	31.0	1.000031
58500.0	81.5	-69.2			139.1	556.4	8.8	30.3	1.000030
59000.0	79.4	-68.6			135.3	557.1	14.8	29.8	1.000029
59500.0	77.5	-68.1			131.6	557.9	21.5	29.6	1.000028
60000.0	75.5	-67.5			128.0	558.6	26.4	29.5	1.000027
60500.0	73.7	-67.0			124.5	559.4	29.0	29.0	1.000026
61000.0	71.8	-66.5			121.0	560.1	31.7	28.6	1.000025
61500.0	70.0	-65.9			117.7	560.8	27.7	27.3	1.000024
62000.0	68.3	-65.1			114.4	561.9	22.7	26.2	1.000023
62500.0	66.7	-64.4			111.2	562.9	20.5	24.4	1.000022
63000.0	65.0	-63.6			108.1	564.0	23.9	21.5	1.000021
63500.0	63.4	-62.8			105.1	565.0	28.3	18.6	1.000020
64000.0	61.9	-62.1			102.2	566.0	35.1	15.9	1.000019
64500.0	60.4	-62.2			99.7	565.9	44.6	13.5	1.000018
65000.0	58.9	-62.2			97.3	565.8	52.8	12.2	1.000017
65500.0	57.5	-62.3			95.0	565.7	47.5	12.9	1.000016
66000.0	56.1	-62.3			92.7	565.6	42.9	13.6	1.000015
66500.0	54.8	-62.4			90.5	565.5	38.5	14.3	1.000014
67000.0	53.4	-62.5			88.3	565.5	34.5	15.1	1.000013

STATION ALTITUDE 3989.00 FEET MSL
3 OCT. 80 0750 HRS MDT
ASCENSION NO. 532

UPPER AIR DATA
277020532
WHITE SANDS
TABLE 5 (CONT)

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	TEMPERATURE DEWPOINT DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
67500.0	52.1	-61.9			86.0	566.2	31.5	15.7	1.000019
68000.0	50.9	-60.9			83.5	567.6	35.9	14.0	1.000019
68500.0	49.7	-60.0			81.2	568.8	41.5	12.3	1.000018
69000.0	48.5	-59.7			79.1	569.2	47.7	10.9	1.000018
69500.0	47.3	-59.4			77.1	569.6	54.3	9.6	1.000017
70000.0	46.2	-59.0			75.2	570.0	62.9	8.6	1.000017
70500.0	45.1	-58.7			73.3	570.5	63.3	8.4	1.000016
71000.0	44.1	-58.4			71.5	570.9	59.3	8.8	1.000016
71500.0	43.0	-58.1			69.7	571.3	55.6	9.1	1.000016
72000.0	42.0	-57.8			67.9	571.8	51.7	8.9	1.000015
72500.0	41.0	-57.4			66.2	572.2	47.2	8.5	1.000015
73000.0	40.0	-57.1			64.5	572.6	42.2	8.1	1.000014
73500.0	39.1	-56.8			62.9	573.0	34.8	7.0	1.000014
74000.0	38.1	-56.5			61.3	573.5	23.0	5.9	1.000014
74500.0	37.2	-56.2			59.8	573.9	6.3	5.0	1.000013
75000.0	36.4	-55.8			58.3	574.3	353.5	4.8	1.000013
75500.0	35.5	-55.5			56.8	574.7	345.0	4.8	1.000013
76000.0	34.7	-55.4			55.5	574.9	336.7	4.9	1.000012
76500.0	33.9	-55.3			54.1	575.0	333.5	5.0	1.000012
77000.0	33.1	-55.2			52.9	575.1	333.5	5.0	1.000012
77500.0	32.3	-55.2			51.6	575.2	333.5	5.0	1.000011
78000.0	31.5	-55.1			50.4	575.2	329.7	5.2	1.000011
78500.0	30.8	-55.1			49.2	575.3	322.9	5.5	1.000011
79000.0	30.1	-55.0			48.0	575.4	316.9	5.9	1.000011
79500.0	29.4	-54.5			46.8	576.1	316.8	6.5	1.000010
80000.0	28.7	-53.9			45.6	576.8	322.7	7.4	1.000010
80500.0	28.0	-53.4			44.4	577.5	327.2	8.3	1.000010
81000.0	27.4	-52.8			43.3	578.2	334.0	8.7	1.000010
81500.0	26.8	-52.3			42.2	579.0	352.2	7.6	1.000009
82000.0	26.1	-51.7			41.1	579.7	13.4	7.5	1.000009
82500.0	25.5	-51.2			40.1	580.4			1.000009
83000.0	24.9	-50.6			39.1	581.2			1.000009

STATION ALTITUDE 3989.00 FEET MSL	UPPER AIR DATA	GEODETIC COORDINATES
3 OCT. 80	2770020532	32.40043 LAT DEG
ASCENSION NO. 532	WHITE SANDS	106.37033 LON DEG

TABLE 5 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES(TN)	SPEED KNOTS	
83500.0	24.4	-50.1			38.1	581.9		1.000008
84000.0	23.8	-49.5			37.1	582.6		1.000008

STATION ALTITUDE 3989.00 FEET MSL
 3 OCT. 80
 ASCENSION NO. 532

MANDATORY LEVELS
 2770020532
 WHITE SANDS

GEODETTIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

TABLE 6

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	TEMPERATURE AIR DEGREES	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. PERCENT	WIND DATA	
					DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	5153.	17.0	8.2	56.	191.4	6.2
800.0	6835.	12.2	9.4	83.	190.4	8.4
750.0	8617.	11.9	6.7	70.	260.2	4.9
700.0	10507.	9.0	.7	56.	303.6	8.1
650.0	12512.	5.6	-7.3	39.	336.4	10.8
600.0	14639.	.3	-16.1	28.	348.7	16.4
550.0	16912.	-2.9	-26.6	14.	325.3	11.7
500.0	19365.	-7.9	-30.6	14.	350.7	14.3
450.0	22022.	-13.9	-30.2	24.	347.6	16.5
400.0	24919.	-20.0	-39.2	16.	348.8	21.4
350.0	28121.	-27.4	-45.2	16.	354.5	16.3
300.0	31697.	-36.1			345.1	21.7
250.0	35761.	-46.3			347.2	24.0
200.0	40520.	-56.1			352.0	32.7
175.0	43272.	-61.3			356.8	33.9
150.0	46369.	-66.2			20.3	47.8
125.0	49972.	-68.3			10.2	50.6
100.0	54343.	-72.5			328.5	42.2
80.0	58657.	-68.8			12.4	29.9
70.0	61298.	-65.9			27.9	27.4
60.0	64402.	-62.2			47.1	3.1
50.0	68101.	-60.1			39.3	12.9
40.0	72702.	-57.1			42.7	8.1
30.0	78714.	-55.0			316.8	5.9
25.0	82574.	-50.7				

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

GEODETIC COORDINATES
32.62700 LAT DEG
106.39352 LON DEG

SIGNIFICANT LEVEL DATA
2770050042
APACHE

TABLE 7

STATION ALTITUDE 3951.40 FEET MSL
3 OCT. 80
ASCENSION NO. 42 0630 HRS MDT

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE		REL. HUM. PERCENT
	AIR DEGREES	DEWPOINT CENTIGRADE	
887.9	3951.4	11.1	8.5
873.8	4393.1	13.9	4.5
850.0	5158.8	14.2	4.5
817.0	6255.4	12.9	6.5
806.0	6629.8	12.3	9.1
790.8	7156.4	13.3	8.4
752.6	8522.8	11.0	7.7
732.0	9285.3	11.0	4.5
700.0	10508.5	9.1	2.0
663.4	11965.7	6.8	-7.2
579.2	15570.8	-2.1	-20.4
562.2	16348.1	-2.6	-26.4
554.0	16731.1	-2.5	-26.3
500.0	19381.8	-7.3	-30.2
445.0	22330.0	-14.0	-28.9
416.8	23950.3	-18.8	-34.7
400.0	24955.7	-20.5	-39.1
311.8	30868.7	-33.4	-49.4
300.0	31756.6	-35.6	
274.6	33760.9	-40.9	
250.0	35840.5	-46.0	
200.0	40629.4	-55.5	
161.0	45094.1	-64.4	
150.0	46517.2	-65.4	
132.8	48939.3	-68.1	
112.6	52163.5	-68.3	
100.0	54518.7	-73.3	
94.0	55713.4	-73.5	
87.8	57047.4	-68.3	
70.0	61587.7	-63.5	
67.8	62234.1	-64.2	
65.0	63092.0	-61.5	

STATION ALTITUDE 3951.40 FEET MSL
 3 OCT. 80
 ASCENSION NO. 42 0630 HRS MDT

SIGNIFICANT LEVEL DATA
 2770050042
 APACHE

GEODETIC COORDINATES
 32.62700 LAT DEG
 106.39352 LONG DEG

TABLE 7 (CONT)

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE		REL. HUM. PERCENT
		AIR DEGREES	DEWPOINT CENTIGRADE	
56.6	65924.0	-61.7		
54.2	66807.3	-63.2		
50.0	68461.7	-59.2		
43.0	71604.7	-56.5		
37.6	74419.6	-56.5		
30.0	79201.6	-52.5		
24.4	83656.2	-48.8		
20.0	87697.2	-47.1		
19.0	89121.0	-47.3		
16.4	92364.3	-44.5		
13.9	96021.9	-45.9		

STATION ALTITUDE 3951.40 FEET MSL
 3 OCT. 80
 ASCENSION NO. 42 0630 HRS MDT

UPPER AIR DATA
 2770050042
 APACHE

GEODETIC COORDINATES
 32.62700 LAT DEG
 106.39352 LON DEG

TABLE 8

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	TEMPERATURE DEWPOINT DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
3951.4	887.9	11.1	8.5	84.0	1083.0	658.4	195.0	4.1	1.000293
4000.0	886.3	11.4	8.2	80.6	1080.0	658.7	192.0	4.3	1.000292
4500.0	870.4	13.9	4.5	52.9	1052.3	661.3	172.5	6.6	1.000273
5000.0	854.9	14.1	4.5	52.2	1032.8	661.6	163.6	9.2	1.000269
5500.0	839.6	13.8	5.2	56.0	1015.2	661.2	158.8	12.0	1.000267
6000.0	824.6	13.2	6.1	62.0	998.8	660.7	162.1	11.2	1.000266
6500.0	809.8	12.5	8.3	75.5	982.5	660.1	172.7	8.7	1.000270
7000.0	795.3	13.0	8.6	74.7	963.0	660.8	191.6	5.8	1.000266
7500.0	781.0	12.7	8.2	74.0	946.7	660.4	227.2	4.4	1.000262
8000.0	767.0	11.9	8.0	76.9	932.5	659.5	258.4	4.5	1.000258
8500.0	753.2	11.0	7.7	79.9	918.4	658.5	285.3	5.2	1.000254
9000.0	739.6	11.0	5.7	70.0	902.5	658.3	304.9	6.4	1.000244
9500.0	726.3	10.7	4.0	63.5	887.7	657.7	307.8	7.1	1.000236
10000.0	713.1	9.9	3.0	62.2	874.2	656.7	308.4	7.5	1.000231
10500.0	700.2	9.1	2.0	61.0	860.9	655.8	305.5	7.5	1.000225
11000.0	687.4	8.3	-8	52.6	848.1	654.6	307.9	7.9	1.000217
11500.0	674.9	7.5	-3.9	44.0	835.5	653.5	313.9	9.0	1.000208
12000.0	662.5	6.7	-7.3	35.9	823.1	652.4	322.9	9.5	1.000200
12500.0	650.2	5.5	-9.1	34.1	811.5	650.9	331.6	10.3	1.000196
13000.0	638.1	4.2	-10.8	32.3	800.0	649.4	337.4	11.8	1.000191
13500.0	626.2	3.0	-12.6	30.5	788.8	647.9	340.4	13.5	1.000187
14000.0	614.5	1.8	-14.5	28.7	777.7	646.4	341.7	15.5	1.000183
14500.0	603.0	.5	-16.3	26.9	766.7	644.9	344.0	16.6	1.000179
15000.0	591.8	-.7	-18.2	25.1	755.9	643.3	348.4	16.6	1.000176
15500.0	580.7	-1.9	-20.1	23.3	745.3	641.8	350.1	15.2	1.000172
16000.0	569.7	-2.4	-23.4	18.0	732.6	641.3	347.4	12.0	1.000168
16500.0	558.9	-2.6	-26.3	14.0	719.2	641.0	331.9	10.7	1.000164
17000.0	548.3	-3.0	-26.7	14.0	706.6	640.5	332.6	11.2	1.000161
17500.0	537.8	-3.9	-27.4	14.0	695.4	639.4	344.2	13.0	1.000158
18000.0	527.5	-4.8	-28.1	14.0	684.4	638.3	351.8	14.7	1.000156
18500.0	517.4	-5.7	-28.9	14.0	673.6	637.2	357.0	16.4	1.000153
19000.0	507.4	-6.6	-29.6	14.0	663.0	636.2	352.1	15.8	1.000150

STATION ALTITUDE 3951.40 FEET MSL
3 OCT. 60
ASCENSION NO. 42

UPPER AIR DATA
2770050042
APACHE

GEOGRAPHIC COORDINATES
32.62700 LAT DEG
106.39352 LON DEG

TABLE 8 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES	DEWPOINT CENTIGRADE	REL. HUMID. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
19500.0	497.7	-7.6	-30.0	14.5	652.6	635.0	347.8	15.3	1.000148
20000.0	487.9	-8.7	-29.4	16.7	642.5	633.7	346.4	14.3	1.000146
20500.0	478.4	-9.8	-29.1	18.9	632.6	632.3	346.0	13.9	1.000144
21000.0	469.0	-11.0	-28.9	21.1	622.9	630.9	346.7	13.9	1.000142
21500.0	459.8	-12.1	-28.8	23.3	613.4	629.6	341.9	14.4	1.000140
22000.0	450.8	-13.2	-28.8	25.5	604.0	628.2	335.8	15.3	1.000138
22500.0	442.0	-14.5	-29.5	26.6	595.0	626.7	333.6	15.6	1.000136
23000.0	433.1	-16.0	-31.3	25.3	586.5	624.9	332.9	15.9	1.000133
23500.0	424.5	-17.5	-33.1	24.1	578.1	623.0	336.3	16.0	1.000131
24000.0	416.0	-18.9	-34.9	22.7	569.7	621.3	341.2	17.6	1.000129
24500.0	407.5	-19.7	-37.0	19.7	560.1	620.2	346.0	20.8	1.000126
25000.0	399.3	-20.6	-39.2	17.0	550.6	619.2	347.8	23.2	1.000124
25500.0	390.9	-21.7	-40.0	17.1	541.5	617.8	348.4	24.9	1.000122
26000.0	382.8	-22.8	-40.9	17.2	532.5	616.5	345.4	23.3	1.000120
26500.0	374.8	-23.9	-41.8	17.3	523.7	615.1	343.3	21.7	1.000118
27000.0	367.0	-25.0	-42.6	17.3	515.0	613.8	343.0	20.3	1.000116
27500.0	359.3	-26.1	-43.5	17.4	506.5	612.4	344.9	18.5	1.000114
28000.0	351.9	-27.1	-44.4	17.5	498.2	611.1	348.5	16.5	1.000112
28500.0	344.5	-28.2	-45.3	17.6	490.0	609.7	354.1	17.2	1.000110
29000.0	337.3	-29.3	-46.1	17.7	481.9	608.4	358.4	18.5	1.000108
29500.0	330.3	-30.4	-47.0	17.8	474.0	607.0	357.2	20.3	1.000106
30000.0	323.4	-31.5	-47.9	17.9	466.2	605.6	355.0	21.5	1.000104
30500.0	316.7	-32.6	-48.8	17.9	458.6	604.3	350.5	21.6	1.000103
31000.0	310.0	-33.7	-51.1	15.3**	451.1	602.8	347.4	21.5	1.000101
31500.0	303.4	-35.0	-60.7	5.2**	443.7	601.3	345.6	21.2	1.000099
32000.0	296.8	-36.2			436.4	599.6	344.9	21.2	1.000097
32500.0	290.3	-37.6			429.3	598.0	344.7	21.4	1.000096
33000.0	284.0	-38.9			422.3	596.3	344.7	22.3	1.000094
33500.0	277.8	-40.2			415.4	594.6	344.4	23.2	1.000093
34000.0	271.7	-41.5			408.5	593.0	343.5	24.0	1.000091
34500.0	265.6	-42.7			401.5	591.4	342.8	24.2	1.000089
35000.0	259.7	-43.9			394.7	589.8	342.4	23.9	1.000088

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 3951.40 FEET MSL
3 OCT. 80 0630 HRS MDT
ASCENSION NO. 42

UPPER AIR DATA
2770050042
APACHE

GEODETIC COORDINATES
32.62700 LAT DEG
106.39352 LON DEG

TABLE 8 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUMIDITY PERCENT	DENSITY GM/CM ³	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
35500.0	253.9	-45.2		387.9	588.2	341.8	23.1	1.000086
36000.0	248.1	-46.3		381.1	586.7	341.0	22.5	1.000065
36500.0	242.4	-47.3		374.0	585.5	339.3	25.2	1.000083
37000.0	236.9	-48.3		367.0	584.2	338.8	28.7	1.000082
37500.0	231.4	-49.3		360.1	582.9	339.6	33.5	1.000080
38000.0	226.1	-50.3		353.4	581.6	341.1	35.5	1.000079
38500.0	220.9	-51.3		346.8	580.3	342.8	36.5	1.000077
39000.0	215.8	-52.3		340.3	579.0	343.5	35.8	1.000076
39500.0	210.8	-53.3		334.0	577.7	344.0	34.4	1.000074
40000.0	206.0	-54.3		327.8	576.4	344.2	32.6	1.000073
40500.0	201.2	-55.2		321.7	575.1	344.2	30.7	1.000072
41000.0	196.4	-56.2		315.5	573.8	345.3	28.9	1.000070
41500.0	191.7	-57.2		309.3	572.4	346.6	27.2	1.000069
42000.0	187.1	-58.2		303.3	571.1	346.4	29.1	1.000068
42500.0	182.6	-59.2		297.4	569.8	346.4	31.1	1.000066
43000.0	178.2	-60.2		291.6	568.5	348.2	34.7	1.000065
43500.0	174.0	-61.2		286.0	567.1	349.9	38.0	1.000064
44000.0	169.8	-62.2		280.4	565.8	353.1	39.1	1.000062
44500.0	165.7	-63.2		275.0	564.5	356.3	40.8	1.000061
45000.0	161.7	-64.2		269.7	563.1	360.0	44.6	1.000060
45500.0	157.8	-64.7		263.7	562.5	4.2	47.4	1.000059
46000.0	153.9	-65.0		257.6	562.0	11.2	47.8	1.000057
46500.0	150.1	-65.4		251.7	561.5	17.2	47.4	1.000056
47000.0	146.4	-66.1		246.4	560.5	22.4	45.3	1.000055
47500.0	142.8	-66.9		241.1	559.5	24.8	43.8	1.000054
48000.0	139.2	-67.7		236.0	558.5	22.4	42.6	1.000053
48500.0	135.8	-68.4		231.0	557.4	19.5	42.1	1.000051
49000.0	132.4	-69.1		226.0	556.5	16.0	42.7	1.000050
49500.0	129.1	-69.0		220.2	556.7	12.4	44.8	1.000049
50000.0	125.9	-68.8		214.6	556.9	9.1	49.2	1.000048
50500.0	122.7	-68.7		209.1	557.0	7.2	51.4	1.000047
51000.0	119.6	-68.6		203.8	557.2	6.4	51.3	1.000045

STATION ALTITUDE 3951.40 FEET MSL
 3 OCT. 80
 ASCENSION NO. 42

UPPER AIR DATA
 2770050042
 APACHE

GEODETIC COORDINATES
 32.62700 LAT DEG
 106.39352 LONG DEG

TABLE 8 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
51500.0	116.7	-68.5		198.5	557.4	5.2	47.4	1.000044
52000.0	113.7	-68.3		193.5	557.5	3.2	41.1	1.000043
52500.0	110.9	-69.0		189.2	556.6	359.5	35.1	1.000042
53000.0	108.1	-70.1		185.4	555.2	349.5	31.3	1.000041
53500.0	105.3	-71.1		181.7	553.7	337.2	28.7	1.000040
54000.0	102.7	-72.2		178.0	552.3	328.4	30.3	1.000040
54500.0	100.1	-73.3		174.4	550.8	327.0	36.0	1.000039
55000.0	97.5	-73.4		170.1	550.6	325.9	41.8	1.000038
55500.0	95.0	-73.5		165.8	550.5	333.5	45.9	1.000037
56000.0	92.6	-72.4		160.7	552.0	340.1	50.6	1.000036
56500.0	90.3	-70.4		155.2	554.7	345.6	48.8	1.000035
57000.0	88.0	-68.5		149.8	557.3	351.6	45.0	1.000033
57500.0	85.8	-67.8		145.6	558.2	356.7	40.9	1.000032
58000.0	83.7	-67.3		141.7	559.0	.9	36.4	1.000032
58500.0	81.7	-66.8		137.8	559.7	5.3	32.9	1.000031
59000.0	79.6	-66.2		134.1	560.4	8.5	31.3	1.000030
59500.0	77.7	-65.7		130.5	561.1	12.0	29.7	1.000029
60000.0	75.8	-65.2		126.9	561.8	16.4	27.9	1.000028
60500.0	73.9	-64.6		123.5	562.5	21.0	26.2	1.000027
61000.0	72.1	-64.1		120.1	563.2	22.7	25.7	1.000027
61500.0	70.3	-63.6		116.9	564.0	24.5	25.2	1.000026
62000.0	68.6	-63.9		114.2	563.5	26.5	23.9	1.000025
62500.0	66.9	-63.4		111.1	564.3	28.7	22.6	1.000025
63000.0	65.3	-61.8		107.6	566.4	33.8	20.1	1.000024
63500.0	63.7	-61.5		104.9	566.7	42.3	17.2	1.000023
64000.0	62.2	-61.6		102.4	566.7	50.6	15.6	1.000023
64500.0	60.7	-61.6		99.9	566.6	53.2	16.1	1.000022
65000.0	59.2	-61.6		97.5	566.6	55.6	16.7	1.000022
65500.0	57.8	-61.7		95.2	566.5	53.1	17.2	1.000021
66000.0	56.4	-61.8		93.0	566.3	50.6	17.7	1.000021
66500.0	55.0	-62.7		91.1	565.2	43.0	17.3	1.000020
67000.0	53.7	-62.7		88.9	565.1	32.4	16.9	1.000020

STATION ALTITUDE 3951.40 FEET MSL
3 OCT. 80 0630 HRS MDT
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UPPER AIR DATA
2770050042
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GEODETIC COORDINATES
32.62700 LAT DEG
106.39352 LON DEG

TABLE 8 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
83500.0	24.6	-48.9			38.2	583.4	155.2	10.2	1.000008
84000.0	24.0	-48.7			37.3	583.7	157.8	11.5	1.000008
84500.0	23.5	-48.5			36.4	584.0	159.3	9.2	1.000008
85000.0	22.9	-48.3			35.5	584.2	161.7	6.8	1.000008
85500.0	22.4	-48.1			34.7	584.5	167.5	5.0	1.000008
86000.0	21.9	-47.9			33.9	584.7	179.0	3.6	1.000008
86500.0	21.4	-47.7			33.1	585.0	202.1	2.5	1.000007
87000.0	20.9	-47.5			32.3	585.2	232.4	3.4	1.000007
87500.0	20.5	-47.3			31.6	585.5	246.7	5.0	1.000007
88000.0	20.0	-47.1			30.8	585.7	254.0	6.6	1.000007
88500.0	19.5	-47.2			30.1	585.6	259.3	7.4	1.000007
89000.0	19.1	-47.3			29.5	585.5	263.5	8.3	1.000007
89500.0	18.7	-47.0			28.8	585.9	264.6	8.9	1.000006
90000.0	18.3	-46.5			28.1	586.5	261.5	8.9	1.000006
90500.0	17.8	-46.1			27.4	587.0	258.5	8.9	1.000006
91000.0	17.4	-45.7			26.7	587.6	263.7	9.4	1.000006
91500.0	17.1	-45.2			26.1	588.1	273.0	10.4	1.000006
92000.0	16.7	-44.8			25.4	588.7	280.5	11.7	1.000006
92500.0	16.3	-44.6			24.8	589.0	289.9	11.9	1.000006
93000.0	15.9	-44.7			24.3	588.8	299.6	12.2	1.000005
93500.0	15.6	-44.9			23.8	588.5	308.6	12.9	1.000005
94000.0	15.2	-45.1			23.3	588.3			1.000005
94500.0	14.9	-45.3			22.8	588.0			1.000005
95000.0	14.6	-45.5			22.3	587.8			1.000005
95500.0	14.2	-45.7			21.8	587.5			1.000005
96000.0	13.9	-45.9			21.3	587.3			1.000005

STATION ALTITUDE 3951.40 FEET MSL
 3 OCT. 80 0630 HRS MDT
 ASCENSION NO. 42

MANDATORY LEVELS
 2770050042
 APACHE

GEODETIC COORDINATES
 32.62700 LAT DEG
 106.39352 LON DEG

TABLE 9

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM.		WIND DATA	
MILLIBARS	FEET	AIR DEGREES	DEWPOINT CENTIGRADE	PERCENT	DIRECTION DEGREES(TN)	SPEED KNOTS	
850.0	5155.	14.2	4.5	52.	161.8	10.1	
800.0	6831.	12.7	8.9	77.	183.5	6.7	
750.0	8610.	11.0	7.3	78.	290.8	5.4	
700.0	10498.	9.1	2.0	61.	305.5	7.5	
650.0	12502.	5.5	-9.1	34.	331.7	10.4	
600.0	14628.	.2	-16.8	26.	345.2	16.6	
550.0	16898.	-2.8	-26.5	14.	330.2	10.9	
500.0	19355.	-7.3	-30.2	14.	348.3	15.5	
450.0	22017.	-13.4	-28.8	26.	335.6	15.3	
400.0	24914.	-20.5	-39.1	17.	347.6	23.0	
350.0	28112.	-27.4	-44.6	18.	350.1	16.5	
300.0	31693.	-35.6			345.1	21.2	
250.0	35762.	-46.0			341.4	22.5	
200.0	40531.	-55.5			344.3	30.3	
175.0	43289.	-61.0			349.4	37.4	
150.0	46392.	-65.4			17.2	47.5	
125.0	49989.	-68.8			8.4	50.1	
100.0	54351.	-73.3			327.0	35.9	
80.0	58705.	-66.3			7.6	31.7	
70.0	61377.	-63.5			24.7	25.1	
60.0	64499.	-61.6			54.2	16.3	
50.0	68205.	-59.2			21.9	16.9	
40.0	72831.	-56.5			141.5	5.1	
30.0	78664.	-52.5			307.2	10.2	
25.0	82759.	-49.2			150.6	7.5	
20.0	87585.	-47.1			253.4	6.5	
15.0	93870.	-45.3					

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4051.00 FEET MSL
 3 OCT. 80 0750 HRS MDT
 ASCENSION NO. 268

SIGNIFICANT LEVEL DATA
 2770030268
 JALLEN

GEODETIC COORDINATES
 33.16712 LAT DEG
 106.49511 LON DEG

TABLE 10

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE		REL. HUM. PERCENT
	AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE	
884.2	12.2	6.0	66.0
874.0	13.7	4.6	54.0
864.4	14.3	4.3	51.0
850.0	13.7	3.5	50.0
825.8	13.0	4.2	55.0
797.0	11.4	6.3	71.0
769.2	11.8	7.7	76.0
756.2	10.5	7.6	82.0
741.2	11.6	3.3	56.0
700.0	9.8	.2	51.0
669.0	7.5	-6.2	37.0
642.8	4.7	-7.4	41.0
600.2	.6	-17.6	24.0
583.4	.2	-24.9	13.0
567.0	-1.0	-27.7	11.0
500.0	-7.2	-28.7	16.0
429.0	-17.2	-35.2	19.0
422.0	-17.1	-37.5	15.0
400.0	-20.2	-40.0	15.0
346.6	-27.2	-46.4	14.0
321.6	-32.1	-50.5	14.0
300.0	-35.7		
250.0	-46.7		
227.4	-51.0		
212.8	-52.5		
200.0	-55.3		
160.4	-64.2		
150.0	-65.6		
141.2	-65.8		
123.6	-70.1		
107.4	-69.5		
100.0	-71.0		

STATION ALTITUDE 4051.00 FEET MSL
3 OCT. 80
ASCENSION NO. 268 0750 HRS MDT

SIGNIFICANT LEVEL DATA
2770030268
JALLEN

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LON DEG

TABLE 10 (CONT)

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE		REL. HUM. PERCENT
	AIR DEGREES	DEWPOINT CENTIGRADE	
89.8 56603.6	-73.7		
81.6 58477.7	-67.7		
70.0 61549.8	-64.2		
65.8 62798.1	-64.9		
63.2 63618.7	-60.5		
56.0 66092.3	-63.0		
50.0 68413.3	-60.0		
40.8 72645.9	-56.2		
33.4 76850.0	-56.2		
30.0 79129.0	-51.8		
25.8 82374.5	-50.3		

STATION ALTITUDE 4051.00 FEET MSL
3 OCT. 80
ASCENSION NO. 268

UPPER AIR DATA
2770030268
JALLEN

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LONG DEG

TABLE 11

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
4051.0	884.2	12.2	6.0	66.0	1075.1	659.4	0	0	1.000283
4500.0	870.0	14.0	4.5	52.7	1051.7	661.3	183.8	2.7	1.000273
5000.0	854.4	13.9	3.7	50.3	1033.3	661.2	183.8	5.8	1.000267
5500.0	839.1	13.4	3.8	52.2	1016.5	660.7	183.8	8.8	1.000264
6000.0	824.1	12.9	4.3	55.9	999.7	660.2	182.2	10.4	1.000261
6500.0	809.3	12.1	5.5	64.1	984.2	659.4	177.9	9.8	1.000261
7000.0	794.7	11.4	6.4	71.4	968.4	658.7	186.3	8.6	1.000261
7500.0	780.4	11.6	7.2	74.0	949.9	659.1	207.4	7.7	1.000259
8000.0	766.4	11.5	7.7	77.3	933.0	659.0	225.9	9.0	1.000257
8500.0	752.5	10.8	6.7	75.7	918.7	658.1	238.9	10.7	1.000251
9000.0	739.0	11.7	3.2	55.7	900.2	658.8	251.3	11.5	1.000236
9500.0	725.6	11.1	2.2	54.1	886.1	658.0	264.0	11.4	1.000231
10000.0	712.5	10.4	1.1	52.5	872.2	657.2	278.8	11.2	1.000226
10500.0	699.6	9.8	.1	50.8	858.6	656.4	286.0	10.3	1.000220
11000.0	686.9	8.8	-2.4	45.2	846.2	655.1	291.2	9.6	1.000213
11500.0	674.4	7.9	-5.0	39.5	833.9	653.9	289.3	8.8	1.000206
12000.0	662.0	6.8	-6.5	38.0	822.2	652.5	288.0	8.2	1.000201
12500.0	649.8	5.5	-7.1	39.9	810.8	651.0	287.2	7.5	1.000198
13000.0	637.8	4.2	-8.4	39.1	799.5	649.5	299.4	8.5	1.000194
13500.0	626.0	3.1	-11.0	34.4	788.1	648.0	311.4	10.3	1.000189
14000.0	614.3	2.0	-13.8	29.8	776.8	646.6	326.9	13.8	1.000184
14500.0	602.8	.9	-16.9	25.1	765.6	645.2	334.3	16.3	1.000179
15000.0	591.5	.4	-20.9	18.4	752.8	644.6	337.4	16.2	1.000174
15500.0	580.4	-.0	-25.4	12.6	739.9	644.0	338.1	15.0	1.000169
16000.0	569.5	-.8	-27.2	11.3	728.2	643.0	337.8	13.3	1.000166
16500.0	558.6	-1.7	-27.7	11.6	716.7	642.0	344.5	13.7	1.000163
17000.0	548.0	-2.7	-27.8	12.4	705.5	640.8	349.1	14.3	1.000160
17500.0	537.5	-3.6	-27.9	13.1	694.4	639.7	348.8	14.9	1.000158
18000.0	527.2	-4.6	-28.0	13.9	683.6	638.6	347.2	15.6	1.000155
18500.0	517.1	-5.5	-28.2	14.7	672.9	637.4	345.1	16.4	1.000153
19000.0	507.3	-6.5	-28.5	15.4	662.4	636.3	340.2	15.1	1.000151
19500.0	497.5	-7.5	-28.9	16.1	652.2	635.1	335.1	14.2	1.000148

STATION ALTITUDE 4051.00 FEET MSL
3 OCT. 80
ASCENSION NO. 268 0750 HRS MDT

UPPER AIR DATA
2770030268
JALLEN

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LON DEG

TABLE 11 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE				DIRECTION DEGREES(TN)	SPEED KNOTS	
20000.0	487.7	-8.8	-29.7	14.5	642.5	633.5	330.5	13.5	1.000146
20500.0	478.1	-10.1	-30.5	16.9	633.0	631.9	330.8	14.0	1.000144
21000.0	468.7	-11.4	-31.4	17.3	623.6	630.4	333.6	14.9	1.000141
21500.0	459.5	-12.7	-32.2	17.7	614.4	628.8	328.2	14.7	1.000139
22000.0	450.4	-14.0	-33.1	18.0	605.3	627.2	323.8	14.7	1.000137
22500.0	441.6	-15.3	-33.9	18.4	596.4	625.6	327.7	14.9	1.000135
23000.0	432.9	-16.6	-34.8	18.8	587.7	624.1	334.6	15.7	1.000133
23500.0	424.3	-17.1	-36.7	16.3	577.2	623.4	344.4	17.4	1.000130
24000.0	415.7	-18.6	-38.2	15.0	567.4	622.4	349.1	18.6	1.000128
24500.0	407.3	-19.2	-39.2	15.0	558.5	620.9	350.6	19.1	1.000126
25000.0	399.1	-20.3	-40.1	15.0	549.8	619.5	351.5	19.4	1.000124
25500.0	390.9	-21.3	-41.1	14.8	540.6	618.3	352.2	19.5	1.000121
26000.0	382.8	-22.3	-42.0	14.7	531.7	617.0	355.1	20.2	1.000119
26500.0	374.9	-23.4	-42.9	14.5	522.8	615.8	358.0	21.0	1.000117
27000.0	367.2	-24.4	-43.9	14.4	514.2	614.5	.6	21.7	1.000115
27500.0	359.7	-25.4	-44.8	14.3	505.7	613.2	2.5	22.4	1.000113
28000.0	352.3	-26.4	-45.7	14.1	497.3	612.0	3.4	22.8	1.000111
28500.0	345.0	-27.5	-46.7	14.0	489.2	610.6	3.8	22.9	1.000110
29000.0	337.7	-28.9	-47.8	14.0	481.6	608.9	3.8	22.9	1.000108
29500.0	330.6	-30.3	-49.0	14.0	474.2	607.1	3.8	23.2	1.000106
30000.0	323.6	-31.7	-50.1	14.0	466.9	605.4	3.9	23.5	1.000104
30500.0	316.7	-32.9	-53.2	10.9**	459.2	603.9	2.3	23.8	1.000103
31000.0	309.9	-34.0	-58.2	6.6**	451.5	602.5	.2	24.0	1.000101
31500.0	303.3	-35.1	-67.2	2.2**	443.9	601.0	355.4	23.7	1.000099
32000.0	296.7	-36.4			436.5	599.5	350.7	23.6	1.000097
32500.0	290.1	-37.7			429.3	597.8	347.0	23.9	1.000096
33000.0	283.7	-39.1			422.2	596.0	345.0	24.3	1.000094
33500.0	277.5	-40.4			415.3	594.3	346.6	25.2	1.000092
34000.0	271.3	-41.8			408.5	592.6	347.8	25.9	1.000091
34500.0	265.3	-43.1			401.8	590.9	348.5	26.6	1.000089
35000.0	259.5	-44.5			395.2	589.1	348.3	27.1	1.000088
35500.0	253.7	-45.8			388.8	587.4	346.8	27.2	1.000087

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4051.00 FEET MSL
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UPPER AIR DATA
 2770030268
 JALLEN

GEODETIC COORDINATES
 33.16712 LAT DEG
 106.49511 LON DEG

TABLE 11 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
36000.0	248.1	-47.1		382.2	585.8	345.4	28.0	1.000085
36500.0	242.4	-48.1		375.2	584.4	344.6	29.7	1.000084
37000.0	236.9	-49.2		368.4	583.1	344.4	31.4	1.000082
37500.0	231.4	-50.2		361.6	581.7	344.5	32.9	1.000081
38000.0	226.1	-51.1		354.8	580.5	344.3	32.9	1.000079
38500.0	220.9	-51.7		347.4	579.8	344.0	32.8	1.000077
39000.0	215.8	-52.2		340.2	579.1	343.3	32.7	1.000076
39500.0	210.8	-52.9		333.4	578.1	341.1	32.4	1.000074
40000.0	205.9	-54.0		327.2	576.7	336.9	31.8	1.000073
40500.0	201.1	-55.1		321.2	575.3	332.5	30.9	1.000072
41000.0	196.3	-56.1		315.0	574.0	328.0	29.9	1.000070
41500.0	191.6	-57.0		308.8	572.7	328.8	29.4	1.000069
42000.0	187.0	-58.0		302.8	571.4	331.7	29.1	1.000067
42500.0	182.5	-59.0		296.8	570.1	337.0	30.9	1.000066
43000.0	178.1	-60.0		291.1	568.8	342.3	33.9	1.000065
43500.0	173.8	-61.0		285.4	567.5	346.6	36.8	1.000064
44000.0	169.7	-61.9		279.8	566.2	350.3	39.9	1.000062
44500.0	165.6	-62.9		274.4	564.9	354.8	41.9	1.000061
45000.0	161.6	-63.9		269.1	563.6	359.9	43.4	1.000060
45500.0	157.7	-64.6		263.4	562.7	4.5	44.5	1.000059
46000.0	153.8	-65.1		257.5	562.0	9.0	45.1	1.000057
46500.0	150.0	-65.6		251.8	561.3	13.1	45.3	1.000056
47000.0	146.3	-65.7		245.7	561.1	16.7	45.1	1.000055
47500.0	142.7	-65.8		239.8	561.0	18.9	44.5	1.000053
48000.0	139.2	-66.3		234.4	560.4	20.1	43.6	1.000052
48500.0	135.7	-67.1		229.4	559.3	19.7	43.0	1.000051
49000.0	132.3	-67.9		224.6	558.1	18.5	42.5	1.000050
49500.0	129.1	-68.7		219.9	557.0	16.1	43.2	1.000049
50000.0	125.8	-69.5		215.3	555.9	12.7	44.9	1.000048
50500.0	122.7	-70.1		210.5	555.2	10.3	46.8	1.000047
51000.0	119.6	-70.0		205.1	555.3	9.3	48.8	1.000046
51500.0	116.6	-69.9		199.8	555.5	8.7	49.7	1.000044

GEODETIC COORDINATES
33.16712 LAT DEG
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STATION ALTITUDE 4051.00 FEET MSL
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TABLE 11 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TH)	SPEED KNOTS	INDEX OF REFRACTION
52000.0	113.7	-69.7			194.7	555.6	9.7	45.2	1.000043
52500.0	110.8	-69.6			189.7	555.8	10.8	40.7	1.000042
53000.0	108.0	-69.5			184.8	555.9	7.5	36.2	1.000041
53500.0	105.3	-69.9			180.5	555.4	3.3	31.9	1.000040
54000.0	102.7	-70.4			176.4	554.7	358.7	30.6	1.000039
54500.0	100.1	-71.0			172.5	553.9	354.0	29.9	1.000038
55000.0	97.5	-71.6			168.6	553.0	349.3	29.5	1.000037
55500.0	95.1	-72.3			164.8	552.2	344.8	29.4	1.000036
56000.0	92.6	-72.9			161.2	551.3	345.2	30.0	1.000035
56500.0	90.3	-73.6			157.6	550.4	349.7	31.3	1.000034
57000.0	88.0	-74.4			152.7	551.9	355.1	32.7	1.000033
57500.0	85.8	-70.8			147.7	554.1	2.3	34.3	1.000032
58000.0	83.6	-69.2			142.8	556.3	8.3	36.0	1.000031
58500.0	81.5	-67.1			138.2	558.4	11.4	35.7	1.000030
59000.0	79.5	-67.1			134.4	559.2	14.5	35.6	1.000029
59500.0	77.5	-66.5			130.7	560.0	17.6	33.6	1.000028
60000.0	75.6	-66.0			127.2	560.8	21.1	31.5	1.000027
60500.0	73.8	-65.4			123.7	561.5	23.9	29.3	1.000026
61000.0	71.9	-64.8			120.3	562.3	26.3	27.0	1.000025
61500.0	70.2	-64.3			117.0	563.1	27.5	25.3	1.000024
62000.0	68.5	-64.5			114.3	562.8	24.1	25.3	1.000023
62500.0	66.8	-64.7			111.6	562.4	20.7	25.4	1.000022
63000.0	65.2	-63.8			108.4	563.7	21.9	23.5	1.000021
63500.0	63.6	-61.1			104.5	567.3	23.8	21.4	1.000020
64000.0	62.0	-60.9			101.8	567.6	28.1	18.3	1.000019
64500.0	60.5	-61.4			99.6	566.9	36.9	14.5	1.000018
65000.0	59.1	-61.9			97.4	566.2	51.2	11.3	1.000017
65500.0	57.6	-62.4			95.3	565.6	49.4	11.2	1.000016
66000.0	56.3	-62.9			93.2	564.9	46.6	11.2	1.000015
66500.0	54.9	-62.5			90.8	565.5	44.0	11.6	1.000014
67000.0	53.6	-61.8			88.3	566.3	41.9	12.5	1.000013
67500.0	52.3	-61.2			85.9	567.2	40.0	13.4	1.000012

STATION ALTITUDE 4051.00 FEET MSL				UPPER AIR DATA				GEODETTIC COORDINATES			
3 OCT. 80				2770030268				33.16712 LAT DEG			
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TABLE 11 (CONT)											
GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION		
		AIR DEGREES	DEWPOINT CENTIGRADE				DIRECTION DEGREES(TN)	SPEED KNOTS			
68000.0	51.0	-60.5			83.6	568.1	38.2	13.3	1.000019		
68500.0	49.8	-59.9			81.3	568.9	36.3	12.9	1.000018		
69000.0	48.6	-59.5			79.3	569.5	35.3	12.6	1.000018		
69500.0	47.5	-59.0			77.2	570.1	37.1	12.4	1.000017		
70000.0	46.3	-58.6			75.2	570.7	39.0	12.3	1.000017		
70500.0	45.2	-58.1			73.3	571.3	45.3	11.1	1.000016		
71000.0	44.2	-57.7			71.4	571.9	57.2	9.7	1.000016		
71500.0	43.1	-57.2			69.6	572.5	72.3	8.8	1.000015		
72000.0	42.1	-56.8			67.8	573.1	92.7	7.7	1.000015		
72500.0	41.1	-56.3			66.0	573.6	116.1	7.8	1.000015		
73000.0	40.1	-56.2			64.4	573.8	129.4	7.8	1.000014		
73500.0	39.2	-56.2			62.9	573.8	122.2	5.4	1.000014		
74000.0	38.3	-56.2			61.4	573.8	104.3	3.1	1.000014		
74500.0	37.4	-56.2			60.0	573.8	44.5	1.9	1.000013		
75000.0	36.5	-56.2			58.6	573.8	351.5	3.6	1.000013		
75500.0	35.6	-56.2			57.2	573.8	337.2	6.2	1.000013		
76000.0	34.8	-56.2			55.8	573.8	336.2	7.1	1.000012		
76500.0	34.0	-56.2			54.5	573.8	337.1	7.4	1.000012		
77000.0	33.2	-55.9			53.2	574.2	337.9	7.7	1.000012		
77500.0	32.4	-54.9			51.7	575.5	330.3	7.4	1.000012		
78000.0	31.6	-54.0			50.3	576.7	321.4	7.2	1.000011		
78500.0	30.9	-53.0			48.9	578.0	313.0	7.2	1.000011		
79000.0	30.2	-52.0			47.6	579.3	317.3	7.9	1.000011		
79500.0	29.5	-51.6			46.4	579.8	320.9	8.6	1.000010		
80000.0	28.8	-51.4			45.3	580.1			1.000010		
80500.0	28.1	-51.2			44.2	580.4			1.000010		
81000.0	27.5	-50.9			43.1	580.7			1.000010		
81500.0	26.9	-50.7			42.1	581.0			1.000009		
82000.0	26.3	-50.5			41.1	581.3			1.000009		

STATION ALTITUDE 4051.00 FEET MSL
 3 OCT. 80
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MANDATORY LEVELS
 2770030268
 JALLEN

GEODETIC COORDINATES
 33.16712 LAT DEG
 106.49511 LON DEG

TABLE 12

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	AIR TEMPERATURE DEGREES CENTIGRADE	DEWPOINT CENTIGRADE	REL. HUM. PERCENT	WIND DATA	
					DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	5140.	13.7	3.5	50.	183.8	6.6
800.0	6812.	11.6	6.1	69.	179.8	9.2
750.0	8586.	11.0	6.0	71.	241.2	10.8
700.0	10476.	9.8	.2	51.	285.7	10.4
650.0	12482.	5.5	-7.1	40.	287.3	7.5
600.0	14609.	.6	-17.7	24.	335.0	16.2
550.0	16889.	-2.5	-27.7	12.	349.2	14.2
500.0	19348.	-7.2	-28.7	16.	336.3	14.4
450.0	22007.	-14.1	-33.1	18.	324.0	14.7
400.0	24904.	-20.2	-40.0	15.	351.4	19.4
350.0	28109.	-26.7	-46.0	14.	3.6	22.9
300.0	31690.	-35.7			353.0	23.6
250.0	35754.	-46.7			345.8	27.3
200.0	40515.	-55.3			331.7	30.7
175.0	43276.	-60.7			345.5	36.0
150.0	46382.	-65.6			12.9	45.3
125.0	49992.	-69.7			12.0	45.3
100.0	54350.	-71.0			354.0	29.9
80.0	58680.	-67.2			13.5	35.6
70.0	61342.	-64.2			27.3	25.3
60.0	64457.	-61.6			40.7	13.4
50.0	68160.	-60.0			36.8	13.0
40.0	72775.	-56.2			129.1	7.6
30.0	78796.	-51.8			318.0	8.0

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.